Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- (Cancelled)
- (Currently Amended) The method of claim 1, further comprising: A method in a data
 processing system for providing valid translation entries in a translation control entry table for all
 supported direct memory addresses, comprising:

reserving a page in system memory to form a reserved page;

writing the reserved page;

selecting a region in the system memory for the translation control entry table;

initializing all entries in the translation control entry table, wherein all entries are initialized to be valid and contain an address of the reserved page; and

updating an entry in the translation control entry table, wherein a physical memory page replaces the reserved page when the entry is used by an operating system's device driver.

(Original) The method of claim 2, further comprising:

restoring the entry in the translation control entry table with the reserved page when the entry is no longer used by an operating system.

(Currently Amended) The method of claim 2, further comprising:

determining whether a direct memory address translation corresponding to the entry has been cached in a translation lookaside buffer; and

responsive to a determination that the such a direct memory address translation exists, clearing the direct memory address translation from the translation lookaside buffer.

- (Currently Amended) The method of claim 2. [[1,]] wherein the page in the system memory is inaccessible to an operating system running on the data processing system.
- (Currently Amended) The method of claim 2, [[1,]] wherein writing the reserved page includes setting all bytes within the reserved page to 0xFF.

- (Currently Amended) The method of claim 2, [[1,]] wherein initializing all entries to be valid
 includes setting all valid bits to "1".
- 8. (Cancelled)
- (Currently Amended) The method of claim 2, [[1,]] wherein the translation control entry table
 comprises a 2MB Translation Control Entry table having 512K 4-byte entries.
- 10. (Cancelled)
- 11. (Currently Amended) The data processing system of claim 10, further comprising: A data processing system for providing valid translation entries in a translation control entry table for all supported direct memory addresses, comprising:

reserving means for reserving a page in system memory to form a reserved page; writing means for writing the reserved page;

selecting means for selecting a region in the system memory for the translation control entry table:

initializing means for initializing all entries in the translation control entry table, wherein all entries are initialized to be valid and contain an address of the reserved page; and

updating means for updating an entry in the translation control entry table, wherein a physical memory page replaces the reserved page when the entry is used by an operating system's device driver.

- 12. (Original) The data processing system of claim 11, further comprising: restoring means for restoring the entry in the translation control entry table with the reserved page when the entry is no longer used by an operating system.
- (Currently Amended) The data processing system of claim 11, further comprising: determining means for determining whether a direct memory address translation corresponding to the entry has been cached in a translation lookaside buffer; and

clearing means for clearing the direct memory address translation from the translation lookaside buffer in response to a determination that the such a direct memory address translation exists.

14. (Currently Amended) The data processing system of claim 11, [[10,]] wherein the reserved page is inaccessible to an operating system running on the data processing system.

- (Currently Amended) The data processing system of claim 11, [[10,]] wherein writing the reserved page includes setting all bytes within the reserved page to 0xFF.
- (Currently Amended) The data processing system of claim 11, [[10,]] wherein initializing all
 entries to be valid includes setting all valid bits to "1".
- (Cancelled)
- (Currently Amended) The data processing system of claim 11, [[10,]] wherein the translation control entry table comprises a 2MB Translation Control Entry table having 512K 4-byte entries.
- 19. (Cancelled)
- 20. (Currently Amended) The computer program product of claim 19, further comprising: A computer program product in a recordable-type medium for providing valid translation entries in a translation control entry table for all supported direct memory addresses, comprising:

first instructions for reserving a page in system memory to form a reserved page; second instructions for writing the reserved page;

third instructions for selecting a region in the system memory for the translation control entry table:

fourth instructions for initializing all entries in the translation control entry table, wherein all entries are initialized to be valid and contain an address of the reserved page; and

fifth instructions for updating an entry in the translation control entry table, wherein a physical memory page replaces the reserved page when the entry is used by an operating system's device driver.

- 21. (Original) The computer program product of claim 20, further comprising: sixth instructions for restoring the entry in the translation control entry table with the reserved page when the entry is no longer used by an operating system.
- 22. (Currently Amended) The computer program product of claim 20, further comprising: sixth instructions for determining whether a direct memory address translation corresponding to the entry has been cached in a translation lookaside buffer; and

seventh instructions for clearing the direct memory address translation from the translation lookaside buffer in response to a determination that the such-a direct memory address translation exists.

- (Currently Amended) The computer program product of claim 20. [[19,]] wherein the reserved
 page is inaccessible to an operating system running on [[the]] a data processing system.
- 24. (Currently Amended) The computer program product of claim <u>20</u>, [[19,]] wherein writing the reserved page includes setting all bytes within the reserved page to 0xFF.
- 25. (Currently Amended) The computer program product of claim 20, [[19,]] wherein initializing all entries to be valid includes setting all valid bits to "1".
- 26. (Cancelled)
- (Currently Amended) The computer program product of claim 20, [[19,]] wherein the translation
 control entry table comprises a 2MB Translation Control Entry table having 512K 4-byte entries.
- 28. (Currently Amended) The method of claim 2, [[1,]] wherein the reserved page is utilized for DMA address translation.
- (Currently Amended) The data processing system of claim 11, [[10,]] wherein the reserved page is utilized for DMA address translation.
- (Currently Amended) The computer program product of claim 20, [[19,]] wherein the reserved page is utilized for DMA address translation.